



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

# PURCHASE ORDER PO042014

**Supplier:** MCM001-VU  
McMaster-Carr Supply Co,  
P.O. Box 7690  
Chicago, IL 60680-7690 USA  
Phone: 330 995 5500  
Fax: 330 995 9600

**Ship To:** 1270 Aberdeen Street  
Hawkesbury  
ON  
K6A 1K7 Canada  
Phone: 613-632-5200

**PO No:** PO042014

**PO Date:** 12/11/18

**Due Date:** 12/13/18

**Purchase Order Revision:**

**Revision Date:**

**Ship-To Contact:** Lavoie, Chantal  
Phone: clavoie@dartaero.com

**E-MAILED**  
DEC 11 2018

**Via:** Ground

**Pymt Terms:** 2% 10 Net 30

**Freight Terms:**

**Special Comments:**

## Items

Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
1		1374N33	2 sf	Multipurpose Neoprene Rubber Sheet 50A, Adhesive-Back, 12" x 24", 1/16" Thick	Firmed	-	12/13/18	4 Ea	0 Ea	4 Ea	\$15.60/Ea	\$62.40
<i>4 X DEC 27 2018</i>												
2		76475A92	3 ft long	Low-Friction Surface-Protection Tape w/Teflon PTFE, Extra-Tough, 2" Wide x 0.022" Thick x 3' Long receive ea	Firmed	-	12/13/18	12 ft	0 ft	12 ft	\$12.973333/ft	\$155.68
3		MDELIRINR3.000W	8572K34	Delrin Rod, White, 3.000 Dia	Firmed	-	12/13/18	1 ft	0 ft	1 ft	\$45.39/ft	\$45.39
4		90576A104	100/pk	Lock Nut, M5 x 0.8 receive ea	Firmed	-	12/13/18	100 Ea	0 Ea	100 Ea	\$0.045/Ea	\$4.50
5		91166A240	100/pk	Washer M5 receive ea	Firmed	-	12/13/18	100 Ea	0 Ea	100 Ea	\$0.0231/Ea	\$2.31
6		92865A221	5/pk	Steel Hex Head Screw, Zinc-Plated, 3/8"-24 Thread Size, 2"	Firmed	-	12/13/18	10 Ea	0 Ea	10 Ea	\$2.352/Ea	\$23.52
<i>10 X DEC 27 2018</i>												



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Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
7		RBT18406-1	90302A214	Ball Lock Pin, L Handle	Firmed -		12/13/18	4 Ea	0 Ea	4 Ea	\$30.70/Ea	\$122.80

Grand Total: \$416.60

## Order Notes

### Procurement Quality Clauses

- A005 RIGHT OF ENTRY
- A016 PERSONNEL QUALIFICATION
- A026 CERTIFICATION OF MATERIAL CONFORMANCE
- A032 DOCUMENT SPECIAL REQUIREMENTS
- A033 STATEMENT OF CONFORMITY/TEST RECORDS FOR NAS, AN and MS FASTENERS
- A040 NOTIFICATION OF QUALITY ESCAPE
- A041 QUALITY MANAGEMENT SYSTEM
- A042 DART NOTIFICATION BY SUPPLIER
- A043 RETENTION OF QUALITY DOCUMENTS
- A048 COUNTERFEIT PARTS AVOIDANCE, DETECTION, MITIGATION AND DISPOSITION PROGRAM
- A049 SUPPLIER AWARENESS

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit [www.dartaerospace.com](http://www.dartaerospace.com) for further explanation.

Plex 12/11/18 2:39 PM dart.lavoie.chantal



# McMASTER-CARR®

200 Aurora Industrial Pkwy  
Aurora OH 44202-8087  
330-995-5500  
cle.sales@mcmaster.com

Dart Aerospace Ltd  
1270 Aberdeen St  
Hawkesbury ON K6A 1K7  
Canada

Purchase Order  
PO042014

Page 1 of 1

Order Placed By  
Chantal Lavoie

12/11/2018

McMaster-Carr Number  
**5217477-02**

Line	Product	Ordered	Shipped
1	1374N33 Multipurpose Neoprene Rubber Sheet, Adhesive-Back, with Certificate, 12" x 24", 1/16" Thick, 50A Durometer	4 Each	4 ✓
3	8572K34 White Delrin® Acetal Resin Rod, 3" Diameter, 1' Length	1 Foot	1 ✓
4	90576A104 Medium-Strength Steel Nylon-Insert Locknut, Class 8, Zinc-Plated, M5 x 0.8 mm Thread, Packs of 100 (01)	1 Pack	1 ✓
5	91166A240 Zinc-Plated Steel Washer for M5 Screw Size, 5.3 mm ID, 10 mm OD, Packs of 100 (03)	1 Pack	1 ✓
6	92865A221 Medium-Strength Grade 5 Steel Hex Head Screw, Zinc-Plated, 3/8"-24 Thread Size, 2" Long, Fully Threaded, Packs of 5	2 Packs	2 ✓
7	90302A214 L-Handle Push-Button Quick-Release Pin, 5/16" Diameter, 3" Usable Length	4 Each	4 ✓

Shipped separately from our Chicago warehouse on 12/11

2	76475A92 Low-Friction Tape Made with Teflon PTFE, Heavy Duty, 2" Wide, 3 Feet Long, 0.022" Overall Thickness	4 Each	4
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## White Delrin® Acetal Resin Rod

3" Diameter

In stock  
\$45.39 per ft.  
8572K34



**Delrin® Acetal Plastic**  
Round

Material	Delrin® Acetal Plastic
Cross Section Shape	Round
Construction	Solid
Texture	Smooth
Color	White
Clarity	Opaque
Diameter	3"
Diameter Tolerance	0" to +0.250"
Tolerance Rating	Oversized
Length	1 ft., 2 ft., 3 ft., 4 ft., 5 ft.
Hardness	Rockwell M90
Hardness Rating	Hard
For Use Outdoors	No
Temperature Range	-20° to 180° F
Impact Strength	1.00 ft.-lbs./in.
Impact Strength Rating	Good
Tensile Strength	9,000 psi
Tensile Strength Rating	Good
Specifications Met	ASTM D6100, NSF/ANSI Standard 51 for Food Contact, NSF/ANSI Standard 61 for Drinking Water
Density	0.051 lbs./cu. in.
Coefficient of Friction	0.20
Dielectric Strength	435 V/mil
Water Absorption	0.30%
Coefficient of Thermal Expansion	$3.5 \times 10^{-5} \text{ in./in./}^{\circ}\text{F}$
RoHS	Compliant

# SPECIFICATION CONTROL DRAWING

1      2      3      4      5      6      7      8

D

C

B

A

PURCHASE MATERIAL : DELRIN 1150E OR ACETRON GP ACETAL

PART NUMBER : M-DELIN-R DDD | X | COLOR | B  
B X = COLOR CODE, "W" = WHITE, OMITTED = BLACK  
DIA DIA CODE

WHERE DDDD = DIAMETER IN INCHES

B X = COLOR CODE, "W" = WHITE, OMITTED = BLACK

EG. 1" BLACK ROUND BAR = M-DELIN-R1.000

2" WHITE ROUND BAR = M-DELIN-R2.000W

B	UPDATE DRAWING TO CURRENT STANDARDS ADD MATERIAL COLOR "WHITE", ADD REASON CIR. 110 ADD "ACETRON GP ACETAL" AS OPTION (REV A1)	SAD	17.10.19
A	NEW ISSUE	DS	01.11.12
REV.	DESCRIPTION	BY	DATE
DESIGN	SAD	DART AEROSPACE LTD	
DRAWN	SAD	HAWKESBURY, ONTARIO, CANADA	
CHECKED	RF	DRAWING NO.	REV B
MFG. APPR.	RA	M-DELIN-R	SHEET 1 OF 1
APPROVED	HS	TITLE	SCALE
DE APPROV.	CP	DELRIN ROUND BAR	NTS
APPROVED DATE	17.10.19	COPYRIGHT © 2001 BY DART AEROSPACE LTD	

2001 MAR 27 JF  
 ECN 18-657

APPROVED

DESIGN	SAD	DART AEROSPACE LTD
DRAWN	SAD	HAWKESBURY, ONTARIO, CANADA
CHECKED	RF	DRAWING NO.
MFG. APPR.	RA	M-DELIN-R
APPROVED	HS	SHEET 1 OF 1
DE APPROV.	CP	TITLE
APPROVED DATE	17.10.19	SCALE
		NTS

## MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MDLERINR 3.000W  
 DATE: 19/01/03

PO / BATCH NO.: P0042014/5140525

MATERIAL CERT REC'D: Yes  
 QUANTITY RECEIVED: 14  
 QUANTITY INSPECTED: 14  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 3.000"  
 THICKNESS RECEIVED: 3.000"  
 SHEET SIZE ORDERED: /  
 SHEET SIZE RECEIVED: /

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <u>(N)</u>	
CORRECT FINISH	<u>Y</u> N	
CORROSION	Y <u>(N)</u>	
CORRECT GRAIN DIRECTION	<u>Y</u> N	
CORRECT MATERIAL PER M-DRAWING	<u>Y</u> N	<u>DELRIN</u>
CORRECT THICKNESS	<u>Y</u> N	
PHOTO REQUIRED	Y <u>(N)</u>	
CORRECT REF # TO LINK CERT	<u>Y</u> N	<u>P0042014</u>
CORRECT MATERIAL IDENTIFICATION	<u>Y</u> N	
CORRECT M# ON THE MATERIAL	<u>Y</u> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <u>(N)</u>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <u>(N)</u>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	BAS	ENGINEERING SIGNOFF (if required)
INSPECTED BY:	<u>61</u> <u>9-89</u>	SIGNED OFF BY: _____
DATE:	<u>19/01/03</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in